

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 26-44 are pending in the present application. Claims 26, 31, 35, 40 and 44 are amended by the present amendment. Claims 1-25 were previously canceled.

In the outstanding Office Action, Claims 26, 35 and 44 were rejected for non-statutory obviousness-type double patenting as unpatentable over Claims 1, 13 and 25 of U.S. Patent No. 6,708,225; Claims 26, 35 and 44 were rejected under 35 U.S.C. § 103(a) as unpatentable over Wilkins, “Multiagent Planning Architecture,” MPA version 1.2 (herein “Wilkins”) in view of U.S Patent No. 6,163,794 to Lange; and Claims 27-34 and 36-43 were indicated as allowable if rewritten in independent form.

Applicants thank the Examiner for the indication of allowable subject matter.

Further, regarding the non-statutory double patenting rejection of Claims 26, 35 and 44 over Claims 1, 13 and 25 of U.S. Patent No. 6,708,225, the rejection is respectfully traversed in light of the enclosed terminal disclaimer.

In addition, Applicants respectfully traverse the rejection of Claims 26, 35 and 44 under 35 U.S.C. § 103(a) as unpatentable over Wilkins in view of Lange, with respect to amended Claims 26, 35 and 44.

Amended Claim 26 is directed to an agent system for processing information by an agent having agent state data, the agent system including, in part, a wrapper generator that may generate a wrapper in response to a request. The wrapper corresponds to a type of a different type agent system and the wrapper may generate a wrapped agent based on a component of the wrapper. The wrapper sends the wrapped agent to the different type agent system and the wrapped agent executes the agent state data to use resources in the different type agent system. Further, the wrapped agent returns the agent state data based on an

execution result to the agent in the original agent system, and the agent continually executes the agent state data based on the execution result in the original agent system. Independent Claims 35 and 44 include similar features.

Thus, a wrapped agent may execute in a different type agent system instead of an agent executing in an original agent system. In a non-limiting example, an agent system according to the independent claims may perform processing steps, as follows:

(1) While the agent is executing agent state data in the original agent system, in order to use resources in the different type agent system, a command to move to the different type agent system is detected from the agent state data;

(2) A wrapper is generated in the original agent system, and the wrapper is based on component data of a type of the different type agent system;

(3) The wrapper generates the wrapped agent based on a component of the wrapper and sends the wrapped agent to the different type agent system, and the wrapped agent has the agent state data;

(4) The wrapped agent executes the agent state data in the different type agent system, and when the execution is completed, the wrapped agent returns the agent state data based on an execution result to the agent in the original agent system; and

(5) The agent continually executes the agent state data based on the execution result in the original agent system.

Thus, when the agent executing in the original agent system needs resources in the different type agent system, the wrapped agent may advantageously access resources in the different type agent system instead of the agent, and return the execution result to the agent in the original agent system. Accordingly, the agent can access resources of the different type agent system in the same way as accessing resources in the original agent system.

Applicants respectfully submit that Wilkins and Lange do not teach or suggest each feature of the amended independent claims. In particular, the references do not teach or suggest an agent that can access resources of a different type agent system in the same way as accessing resources in an original agent system. Wilkins indicates that a function of the wrapper is to support asynchronous communication such as message exchange among a plurality of agents.<sup>1</sup> For example, the wrapper for an agent makes messages, sends the messages to another agent, and replies to messages sent from another agent.

On the other hand, in Lange Fig. 1, a number of service wrappers 26 link services 24 and respective service resources 25 to an agent server 20. A service wrapper 26 cooperates with the agent server 20 to mediate interaction between the service 24 and an agent 22. Thus, Lange indicates that the service wrapper 26 acts as “gatekeeper” to the respective services 24. In other words, the service wrapper 26 protects against over-consumption and insures that sufficient units of the service resource 25 are available for each agent 22 authorized to utilize the respective service 24.

Accordingly, Applicants respectfully submit that Wilkins and Lange fail to teach or suggest a wrapper that “generates a wrapped agent based on a component of the wrapper, and sends the wrapped agent to the different type agent system, the wrapped agent having the agent state data, the wrapped agent executes the agent state data to use resources in the different type agent system, and returns the agent state data based on an execution result to the agent in the original agent system,” as recited in Claim 26, and as similarly recited in Claims 35 and 44.

Accordingly, Applicants respectfully submit that independent Claims 26, 35 and 44, and claims depending therefrom, are allowable.

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<sup>1</sup> Wilkins at numbered paragraphs 2.1, 3.1, 3.1.1 and 3.1.2.

Further, Applicants note that acknowledgement of each reference in the "Other References" section of the IDS filed on October 9, 2003 has not been received. Accordingly, Applicants respectfully request an initial copy of PTO Form 1449 indicating consideration of each reference filed with the IDS on October 9, 2003.

Consequently, in light of the above discussion and in view of the present amendment, the present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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